

CLAIMS:

Claims 1-10 (cancelled)

11. (original) A method of designing an object or device comprising the steps of :

applying at least two flexible, compliant sensors capable of simultaneously measuring both shear and normal forces, to locations on a prototype design of an object or device being designed;

using the prototype design with the applied sensors in at least one application or test over a test period of time;

measuring both the shear and the normal forces encountered at the sensor locations of the prototype design over at least part of the test time period; and

modifying the design of the object or device in part based on the forces encountered by the prototype design during the application or test.

12. (original) The method in claim 11, wherein the sensor is statically responsive.

13. (original) The method in claim 12, wherein the object or device is a medical device.

14. (original) The method in claim 12, wherein the object or device is athletic footwear.

15. (original) The method in claim 12, wherein the object or device is consumer goods.

16. (original) The method in claim 15, wherein the consumer goods are automobiles.

17. (original) The method in claim 15, wherein the consumer goods are household furnishings.
18. (original) The method in claim 14, wherein the application is a sporting event.
19. (original) The method in claim 13, wherein the application is use by a patient.
20. (original) The method in claim 15, wherein the application is use by a typical consumer.